Interference Search

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	103	548/131	US-PGPUB	OR	ON	2007/02/06 11:16
L2	17	l1 and (4-membered or 5-membered)	US-PGPUB	OR	ON	2007/02/06 11:20
L3	27	548/251	US-PGPUB	OR	ON	2007/02/06 11:19
L4	5	l3 and (4-membered or 5-membered)	US-PGPUB	OR	ON	2007/02/06 11:20
L6	294	548/517	US-PGPUB	OR	ON	2007/02/06 11:20
L7	39	l6 and (4-membered or 5-membered)	US-PGPUB	OR	ON	2007/02/06 11:21
L8	4	549/59 and (4-membered or 5-membered)	US-PGPUB	OR	ON	2007/02/06 11:22
L9	10	514/210.17 and (4-membered or 5-membered)	US-PGPUB	OR	ON	2007/02/06 11:23
L10	53	514/364 and (4-membered or 5-membered)	US-PGPUB	OR	ON	2007/02/06 11:26
L11	60	514/381 and (4-membered or 5-membered)	US-PGPUB	OR	ON	2007/02/06 11:30
L12	96	514/422 and (4-membered or 5-membered)	US-PGPUB	OR	ON	2007/02/06 11:33
L14	4	l12 and immunosuppressive	US-PGPUB	OR	ON	2007/02/06 11:31
L15	8	514/444 and (4-membered or 5-membered)	US-PGPUB	OR	ON	2007/02/06 11:33

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	103	514/210.17	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/06 11:36
L2	14	l1 and (4-membered or 5-membered)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/06 11:37
L3	214	514/364 and (4-membered or 5-membered)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/06 11:36
L4	14	l3 and immunosuppressive	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/06 11:37
L5	1915	514/381	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/06 11:37
L6	220	l5 and (4-membered or 5-membered)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/06 11:38
L7	20	l6 and immunosuppressive	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/06 11:38
L8	42	514/382 and (4-membered or 5-membered)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/06 11:40
L9	265	514/422 and (4-membered or 5-membered)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/06 11:42

EAST Search History

L10	13	l9 and immunosuppressive	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/06 11:40
L11	74	514/444 and (4-membered or 5-membered)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/06 11:42
L12	122	548/131 and (4-membered or 5-membered)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/06 11:43
L13	4	l12 and immunosuppressive	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/06 11:44
L14	82	548/251 and (4-membered or 5-membered)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/06 11:44
L16	116	548/517 and (4-membered or 5-membered)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/06 11:45
L17	5	l16 and immunosuppressive	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/06 11:44
L18	40	549/59 and (4-membered or 5-membered)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/06 11:45

10536730final

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FILE 'HOME' ENTERED AT 10:58:45 ON 06 FEB 2007

=> fil reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 10:58:51 ON 06 FEB 2007
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 5 FEB 2007 HIGHEST RN 919402-72-5
DICTIONARY FILE UPDATES: 5 FEB 2007 HIGHEST RN 919402-72-5

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

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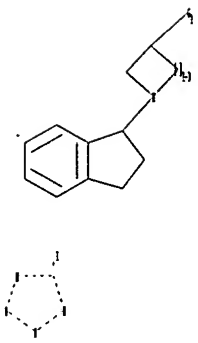
REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

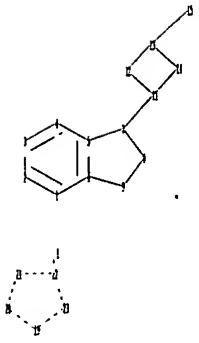
http://www.cas.org/ONLINE/UG/regprops.html

=>
Uploading C:\Program Files\Stnexp\Queries\10536730finb.str

Karen Cheng

10536730final





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15
ring nodes :
1 2 3 4 5 6 7 8 9 11 12 13 14 19 20 21 22 23
chain bonds :
7-11 13-15
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9 11-12 11-14 12-13 13-14 19-20
19-23 20-21 21-22 22-23
exact/norm bonds :
7-11 11-12 11-14 12-13 13-14 13-15 19-20 19-23 20-21 21-22 22-23
exact bonds :
5-7 6-9 7-8 8-9
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6
isolated ring systems :
containing 1 :

G1:CO2H,S,P,[*1]

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 11:Atom
12:Atom 13:Atom 14:CLASS 15:CLASS 19:Atom 20:Atom 21:Atom 22:Atom 23:CLASS

L1 STRUCTURE UPLOADED

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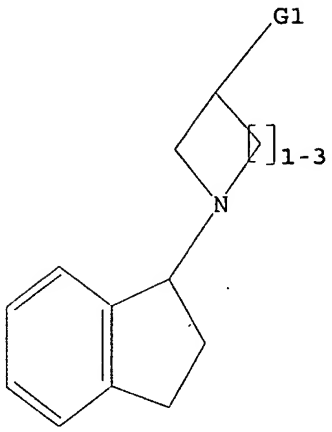
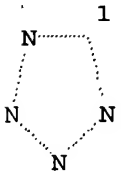
=> d
L1 HAS NO ANSWERS
L1 STR





G1 CO2H,S,P,[@1]

Structure attributes must be viewed using STN Express query preparation.

=> s l1 full
FULL SEARCH INITIATED 10:59:11 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 1653 TO ITERATE

100.0% PROCESSED 1653 ITERATIONS 17 ANSWERS
SEARCH TIME: 00.00.01

L2 17 SEA SSS FUL L1

=> fil caplus
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 172.10 172.31

FILE 'CAPLUS' ENTERED AT 10:59:16 ON 06 FEB 2007
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FILE LAST UPDATED: 5 Feb 2007 (20070205/ED)

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=> s l2
L3 1 L2

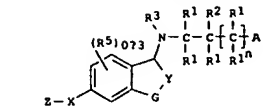
=> d ibib abs hitstr tot

Karen Cheng

L3 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:566538 CAPLUS
DOCUMENT NUMBER: 141:123484
TITLE: Preparation of 1-(amino)indanes and (1,2-dihydro-3-amino)-benzofurans, benzothiophenes and indoles as EDG receptor agonists
INVENTOR(S): Doherty, George A.; Hale, Jeffrey J.; Mills, Sander G.
PATENT ASSIGNEE(S): Merck & Co., Inc., USA
SOURCE: PCT Int. Appl., 83 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004058149	A2	20040715	WO 2003-US40129	20031216
WO 2004058149	A3	20040916		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2509218	A1	20040715	CA 2003-2509218	20031216
AU 2003297232	A1	20040722	AU 2003-297232	20031216
EP 1581509	A2	20051005	EP 2003-814075	20031216
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
JP 2006511579	T	20060406	JP 2004-563642	20031216
US 2006161005	A1	20060720	US 2005-536730	20050527
PRIORITY APPLN. INFO.:			US 2002-435381P P	20021220
			WO 2003-US40129 W	20031216

OTHER SOURCE(S): MARPAT 141:123484
GI



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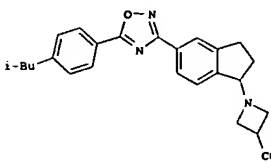


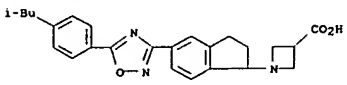
II

AB Compds. of formula I [G = C(R4)2, O, S, SO, SO2; X = Ph, alkyl, etc.; Y = (C(R4))p; Z = alkyl, heterocyclo, etc.; A = CO2H, PO3H2, SO3H, tetrazolyl, etc.; each R1 = H, halo, OH, alkyl, alkoxy; R2 = H, halo, OH, alkyl, alkoxy; R3 =H, alkyl; R2R3 = (substituted) alkylene; R4 = H, alkyl; R5 = halo, alkyl, alkoxy; n = 0-1; p = 1-3] are prepared as EDG receptor agonists. The compds. are useful for treating immune mediated diseases and conditions, such as bone marrow, organ and tissue transplant rejection. Pharmaceutical compns. and methods of use are included. Thus, II was prepared from azetidine-3-carboxylic acid and the prepared indanone derivative The prepared compds. had > 100-fold selectivity of EDG1 over EDG3.

IT 721948-69-2P 721948-70-5P 721948-71-6P
721948-72-7P 721948-73-8P 721948-77-2P
721948-78-3P 721948-79-4P 721948-80-7P
721948-81-8P 721948-82-9P 721948-83-0P
721948-84-1P 721948-85-2P 721948-86-3P
721948-87-4P 721948-88-5P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of aminoindanes as immunosuppressants)

RN 721948-69-2 CAPLUS
CN 3-Azetidinecarboxylic acid, 1-[2,3-dihydro-5-[5-[4-(2-methylpropyl)phenyl]-1,2,4-oxadiazol-3-yl]-1H-inden-1-yl]- (9CI) (CA INDEX NAME)

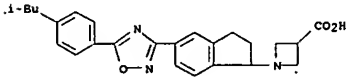
L3 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 721948-70-5 CAPLUS
CN 3-Azetidinecarboxylic acid, 1-[2,3-dihydro-5-[5-[4-(2-methylpropyl)phenyl]-1,2,4-oxadiazol-3-yl]-1H-inden-1-yl]-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

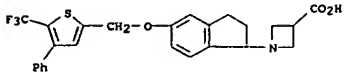
CRN 721948-69-2
CMF C25 H27 N3 O3



CM 2

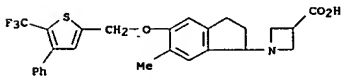
CRN 76-05-1
CMF C2 H F3 O2

RN 721948-71-6 CAPLUS
CN 3-Azetidinecarboxylic acid, 1-[2,3-dihydro-5-[[4-phenyl-5-(trifluoromethyl)-2-thienyl]methoxy]-1H-inden-1-yl]- (9CI) (CA INDEX NAME)

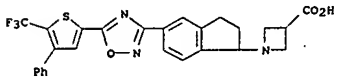


RN 721948-72-7 CAPLUS
CN 3-Azetidinecarboxylic acid, 1-[2,3-dihydro-6-methyl-5-[[4-phenyl-5-(trifluoromethyl)-2-thienyl]methoxy]-1H-inden-1-yl]- (9CI) (CA INDEX

L3 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
NAME)

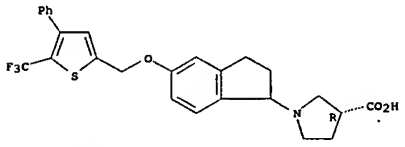


RN 721948-73-8 CAPLUS
CN 3-Azetidinecarboxylic acid, 1-[2,3-dihydro-5-[5-[4-phenyl-5-(trifluoromethyl)-2-thienyl]-1,2,4-oxadiazol-3-yl]-1H-inden-1-yl]- (9CI) (CA INDEX NAME)



RN 721948-77-2 CAPLUS
CN 3-Pyrrolidinecarboxylic acid, 1-[2,3-dihydro-5-[[4-phenyl-5-(trifluoromethyl)-2-thienyl]methoxy]-1H-inden-1-yl]-, (3R)- (9CI) (CA INDEX NAME)

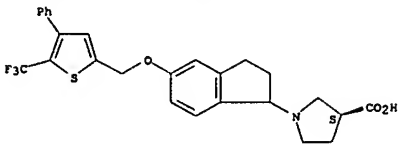
Absolute stereochemistry.



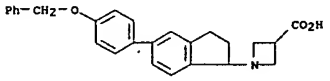
RN 721948-78-3 CAPLUS
CN 3-Pyrrolidinecarboxylic acid, 1-[2,3-dihydro-5-[[4-phenyl-5-(trifluoromethyl)-2-thienyl]methoxy]-1H-inden-1-yl]-, (3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

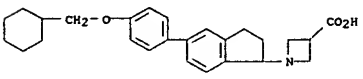
L3 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



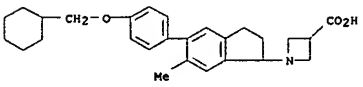
RN 721948-79-4 CAPLUS
CN 3-Azetidinecarboxylic acid, 1-[2,3-dihydro-5-[4-(phenylmethoxy)phenyl]-1H-inden-1-yl]- (9CI) (CA INDEX NAME)



RN 721948-80-7 CAPLUS
CN 3-Azetidinecarboxylic acid, 1-[5-[4-(cyclohexylmethoxy)phenyl]-2,3-dihydro-1H-inden-1-yl]- (9CI) (CA INDEX NAME)

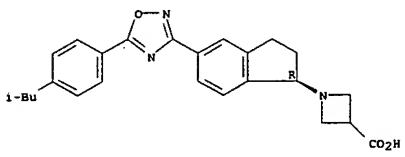


RN 721948-81-8 CAPLUS
CN 3-Azetidinecarboxylic acid, 1-[5-[4-(cyclohexylmethoxy)phenyl]-2,3-dihydro-6-methyl-1H-inden-1-yl]- (9CI) (CA INDEX NAME)



RN 721948-82-9 CAPLUS
CN 3-Azetidinecarboxylic acid, 1-[5-[5-(4-cyclohexylphenyl)-1,2,4-oxadiazol-3-

L3 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

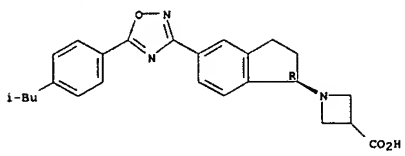


RN 721948-86-3 CAPLUS
CN 3-Azetidinecarboxylic acid, 1-[(1R)-2,3-dihydro-5-[5-[4-(2-methylpropyl)phenyl]-1,2,4-oxadiazol-3-yl]-1H-inden-1-yl]-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 721948-85-2
CMF C25 H27 N3 O3

Absolute stereochemistry.



CM 2

CRN 76-05-1
CMF C2 H F3 O2

RN 721948-87-4 CAPLUS
CN 3-Azetidinecarboxylic acid, 1-[(1S)-2,3-dihydro-5-[5-[4-(2-methylpropyl)phenyl]-1,2,4-oxadiazol-3-yl]-1H-inden-1-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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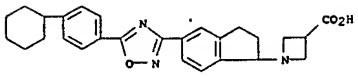
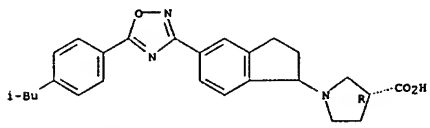
L3 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
yl]-2,3-dihydro-1H-inden-1-yl]- (9CI) (CA INDEX NAME)

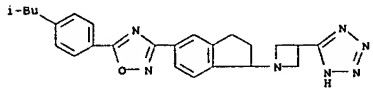


RN 721948-83-0 CAPLUS
CN 3-Pyrrolidinecarboxylic acid, 1-(2,3-dihydro-5-[5-[4-(2-methylpropyl)phenyl]-1,2,4-oxadiazol-3-yl]-1H-inden-1-yl]-, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



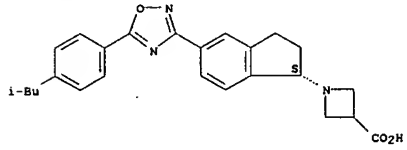
RN 721948-84-1 CAPLUS
CN 1H-Tetrazole, 5-[1-[2,3-dihydro-5-[5-[4-(2-methylpropyl)phenyl]-1,2,4-oxadiazol-3-yl]-1H-inden-1-yl]-3-azetidinyl]- (9CI) (CA INDEX NAME)



RN 721948-85-2 CAPLUS
CN 3-Azetidinecarboxylic acid, 1-[(1R)-2,3-dihydro-5-[5-[4-(2-methylpropyl)phenyl]-1,2,4-oxadiazol-3-yl]-1H-inden-1-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L3 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

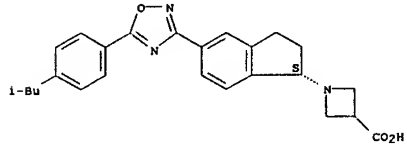


RN 721948-88-5 CAPLUS
CN 3-Azetidinecarboxylic acid, 1-[(1S)-2,3-dihydro-5-[5-[4-(2-methylpropyl)phenyl]-1,2,4-oxadiazol-3-yl]-1H-inden-1-yl]-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

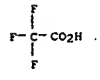
CRN 721948-87-4
CMF C25 H27 N3 O3

Absolute stereochemistry.



CM 2

CRN 76-05-1
CMF C2 H F3 O2



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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	5.74	178.05

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.78	-0.78

STN INTERNATIONAL LOGOFF AT 10:59:33 ON 06 FEB 2007

Karen Cheng